



Title: COMPOSITIONS AND METHODS FOR THERAPY AND DIAGNOSIS OF PROSTATE CANCER

Inventor(s): Jiangchun Xu et al. Serial No. 09/483,672 Docket No. 210121.427C11

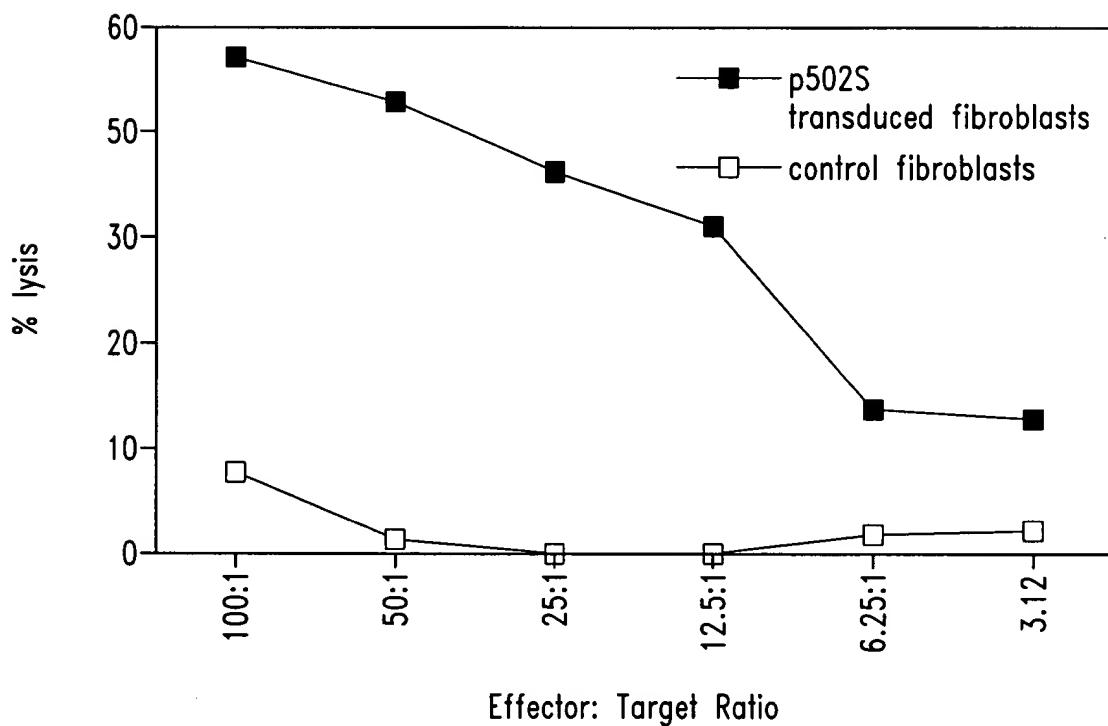


Fig. 1

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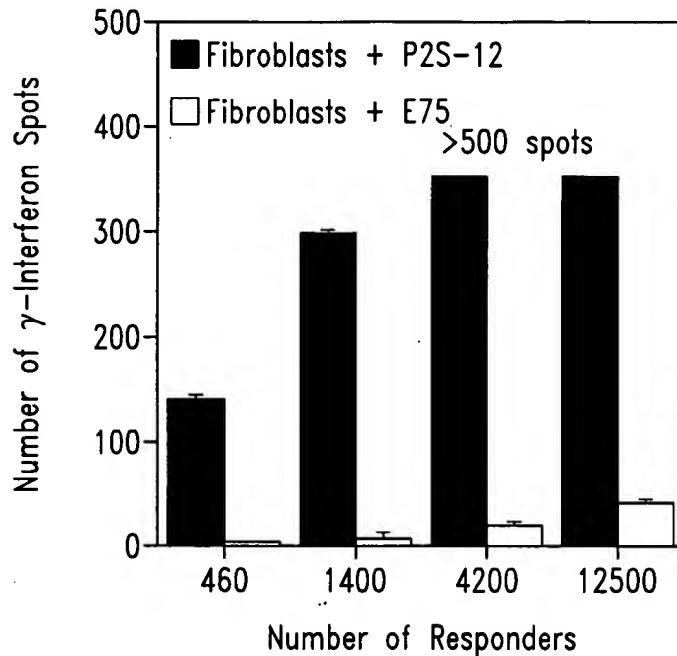


Fig. 2A

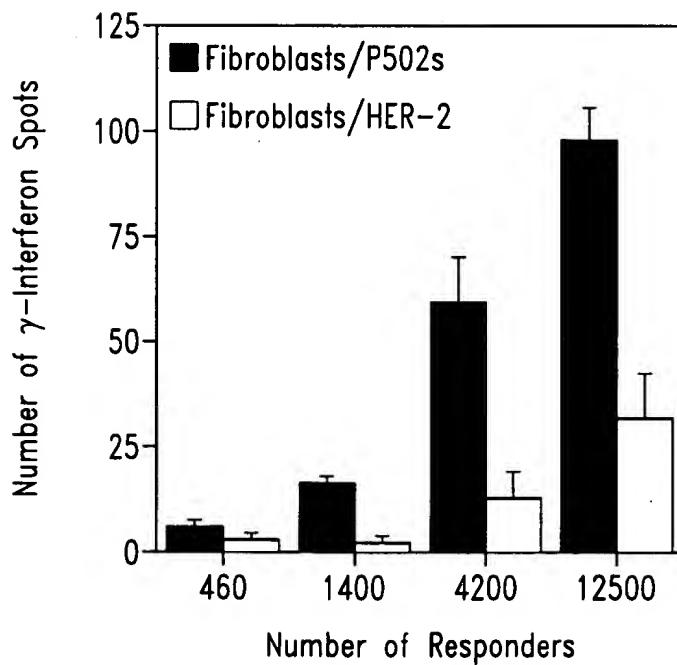


Fig. 2B

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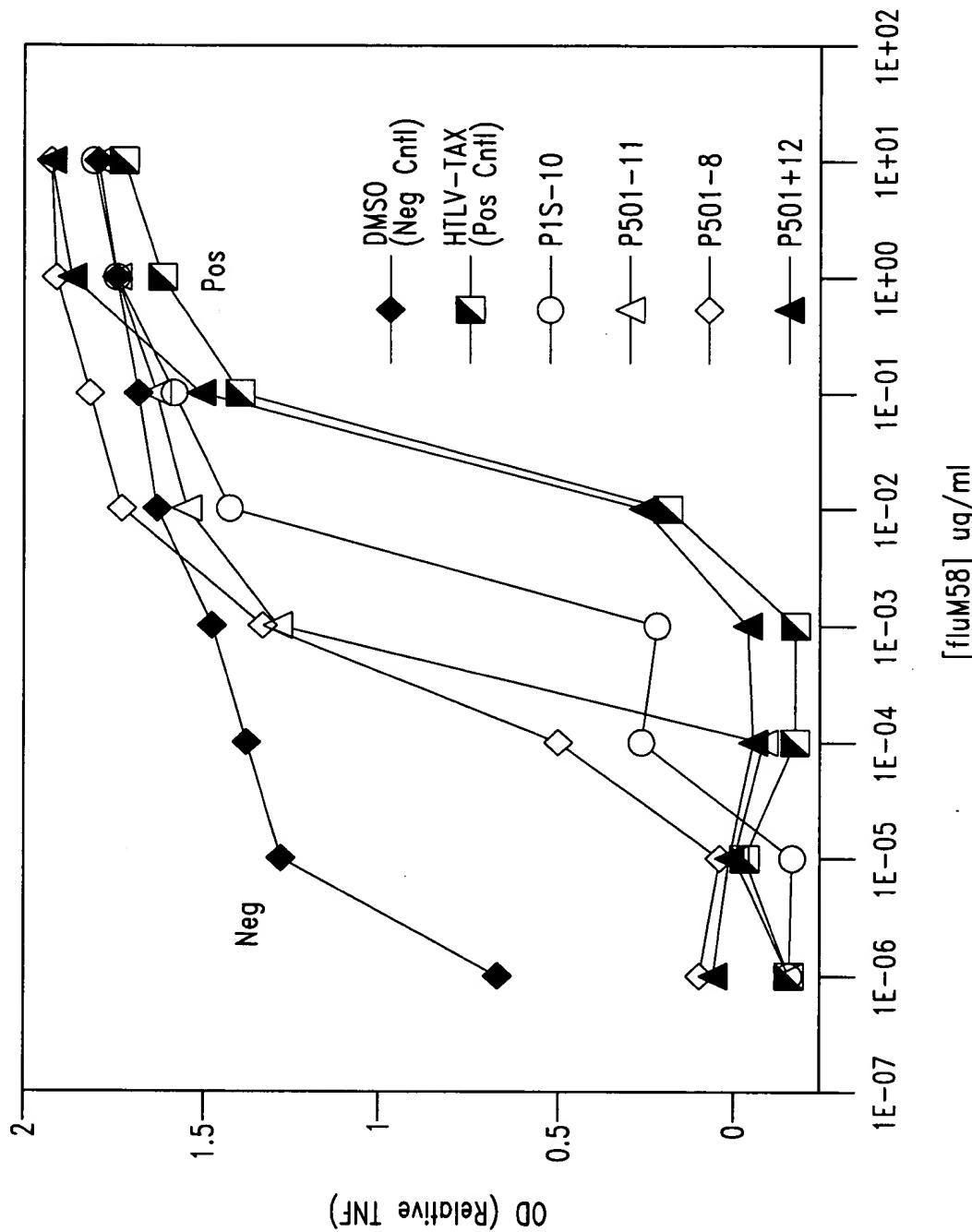


Fig. 3

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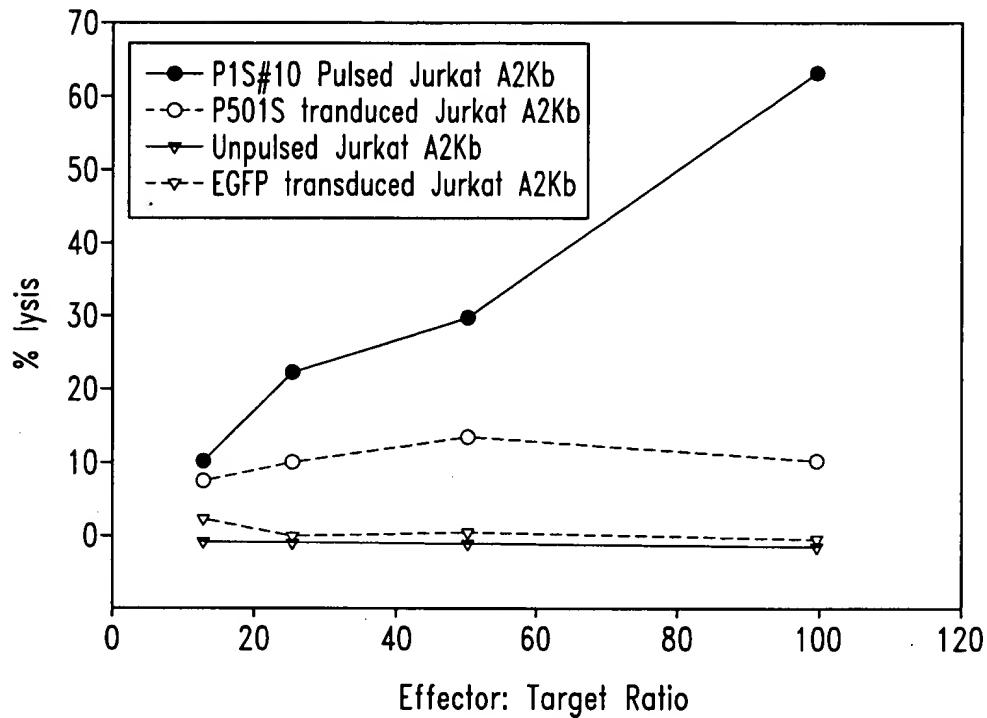


Fig. 4

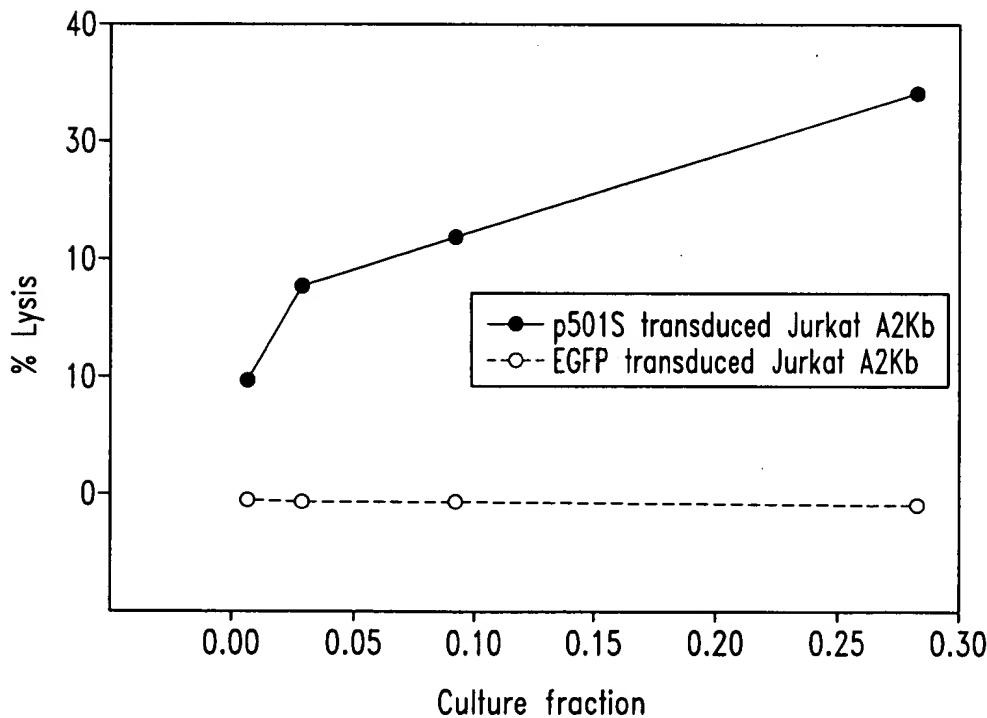


Fig. 5

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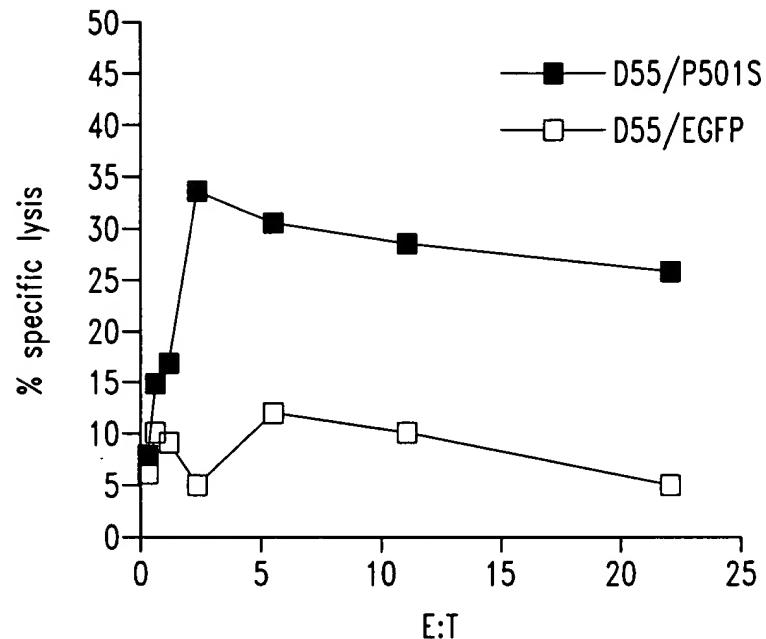


Fig. 6A

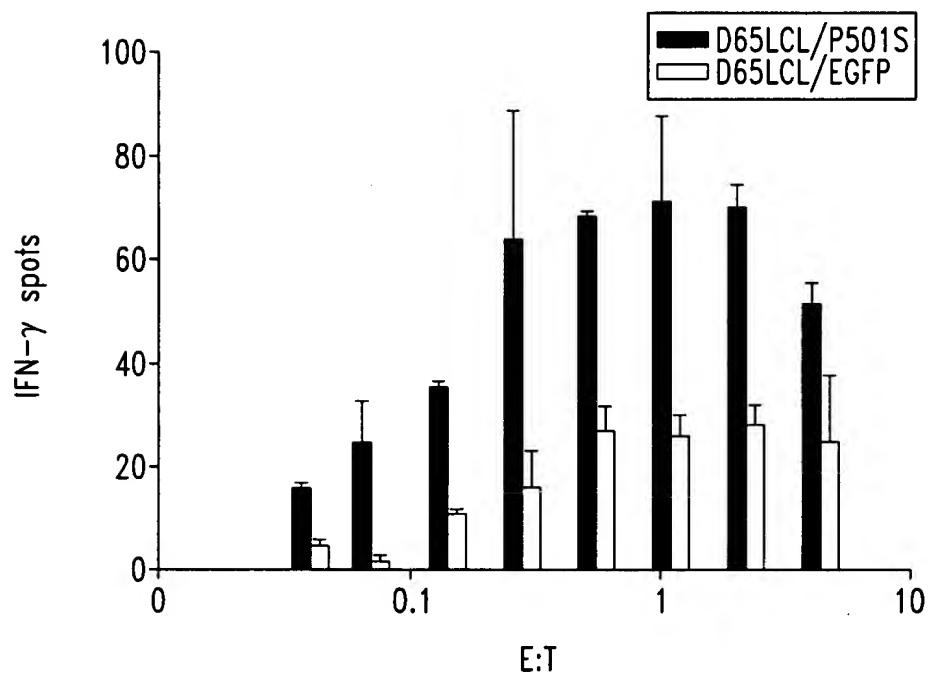


Fig. 6B

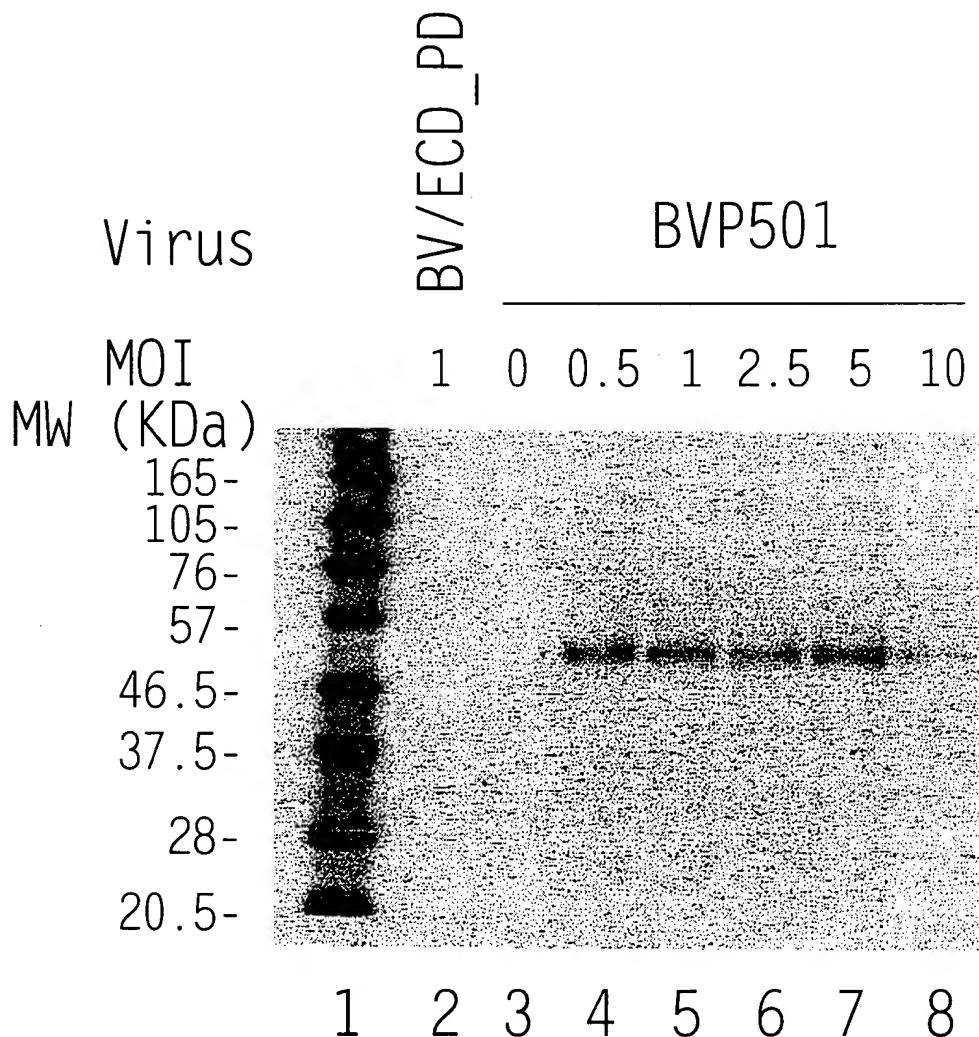
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Expression of P501S
by the Baculovirus Expression System



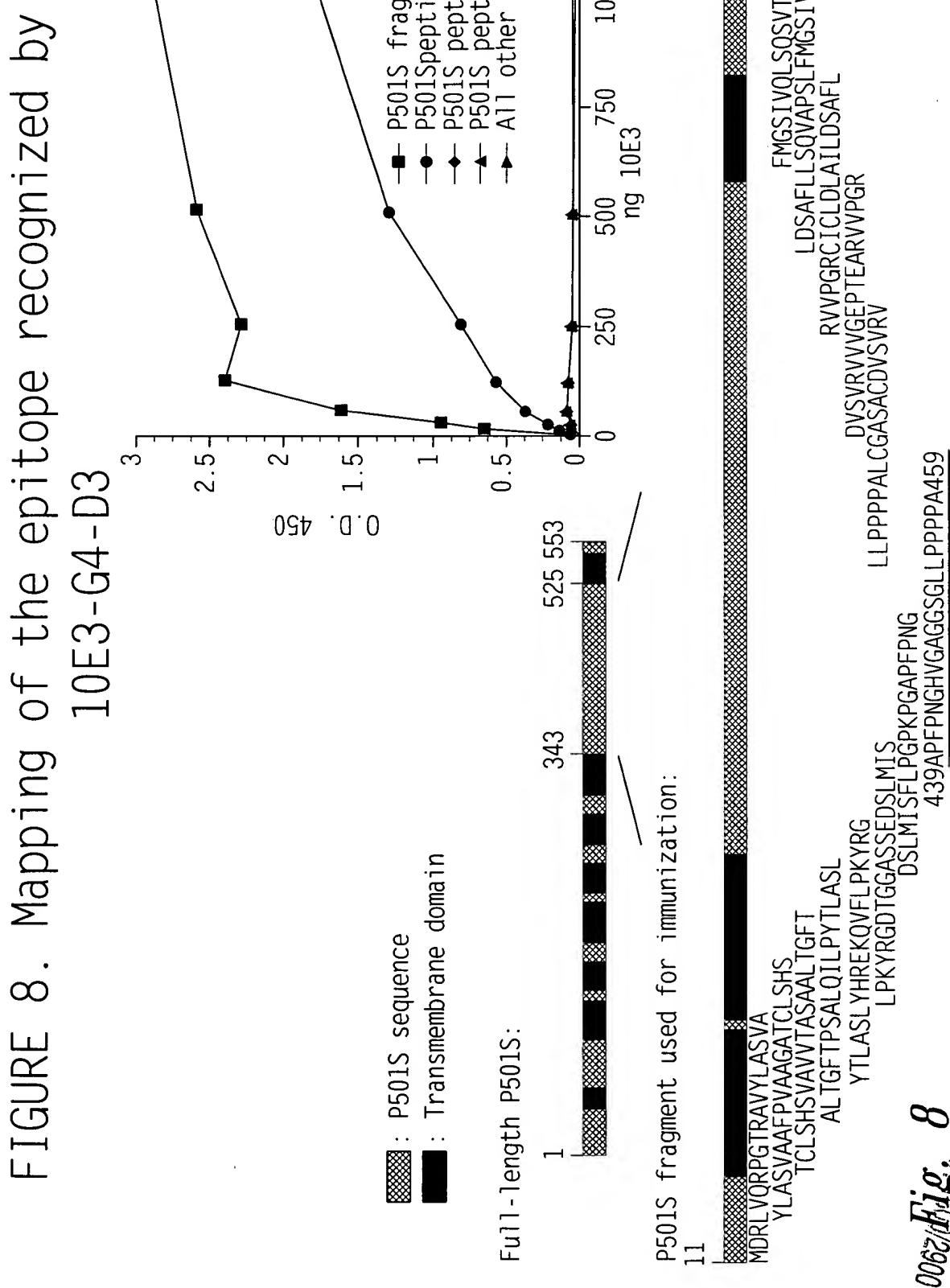
C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

Fig. 7



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Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

MVQRLWVSRLLRHRK **AQLLL VNLL TFGLEVCLAAGIT** YVPPLL LEVGVEEKFM
TMVLGIGPVGLVCYPLLGSAS

DHWRGRYGRRRP **FIWALSLGILLSFLIPRAGWL** AGLLCPDPRPLE **LALLL ILGVGLLDFCGQVCFTPL**

EALLSDLFRDPDHCRQ **AYSVYAFMISLGGCLGYLLPAI** DWDT SALAPYLGQTQEE

CLFGLLTLIFLTCVAATLLV **AEAAALGPTEPAEGLSAPSLS** PHCCPCRARLAFRNLGALLPRL

HQLCCRMPRTLRR **LFVAELCSWMALMTFLFYTD** VGEGLYQGV PRAEPGTEARRHYDEGVR

MGSLGLFLQCAISLVFSLVM **DRL VQRFGTRAVYLAS** VAAFPVAAGATCLSHSVAVVTA **SAA**

LTGFTFSALQILPYTLASLY **HREKQVFLPKYRGDTGGASSED** SLMTSFLPGPKPGAPFPNGHVGAGGSGL

LPPPPALCGASACDVSVRVVVGEPTEARVVPGRG **ICLDLAI** DSAFLLSQVAPS **LF** MGSIVQLSQS

VTAYMVSAAGLGLVAIYFAT **QVVFDKSDLAKYSA**

Underlined sequence: Predicted transmembrane domain; **Bold sequence**: Predicted extracellular domain; *Italic sequence*: Predicted intracellular domain. Sequence in bold/underlined: used generate polyclonal rabbit serum

Localization of domains predicted using HMMTOP (G.E. Tusnady an I. Simon (1998) Principles Governing Amino Acid Composition of Integral Membrane Proteins: Applications to topology Prediction. *J. Mol. Biol.* 283, 489-506.

Fig. 9

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Genomic Map of (5) Corixa Candidate Genes

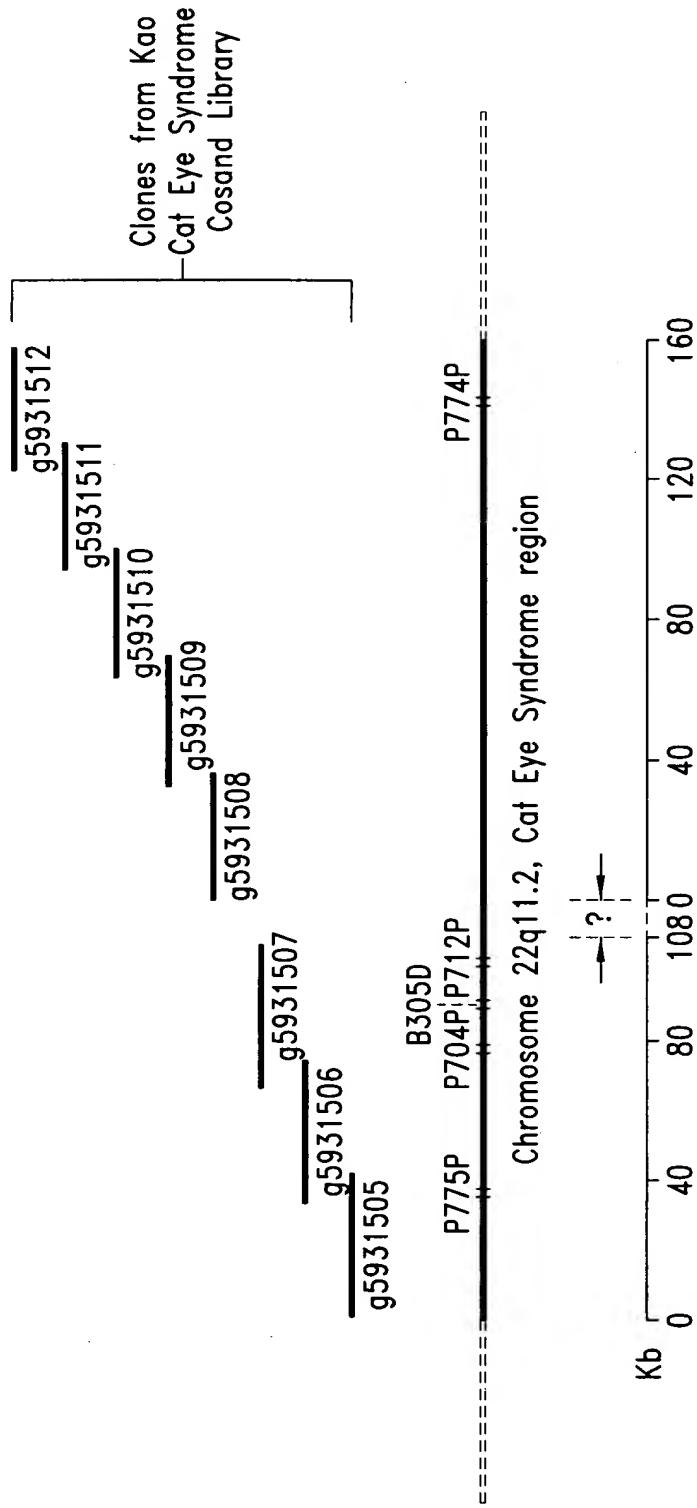


Fig. 10

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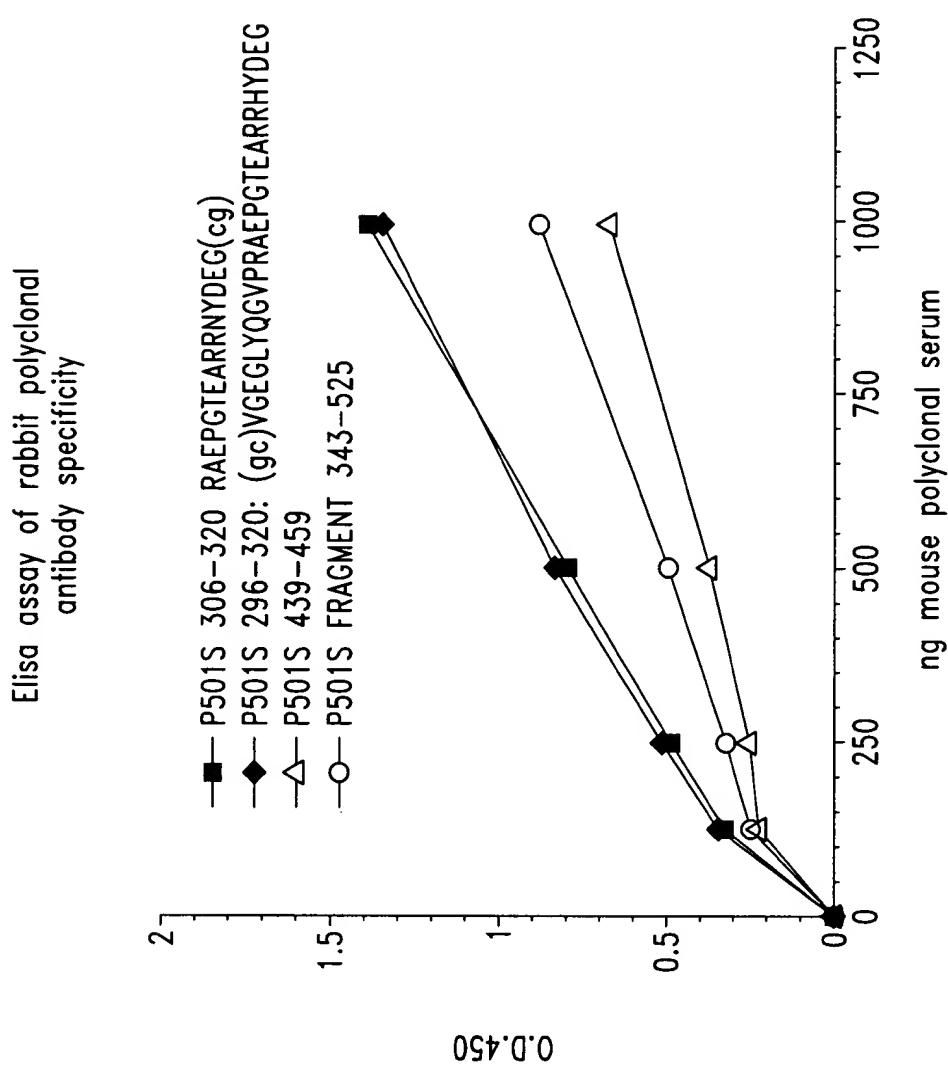


Fig. 11

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GTCACTTAGG AAAAGGTGTC CTTTGGGCA GCCGGGCTCA GCATGAGGAA CAGAAGGAAT 60
GACACTCTGG ACAGCACCCG GACCCGTAC TCCAGCGCGT CTCGGAGCAC AGACTTGTCT 120
TACAGTGAAA GCGACTTGGT GAATTTTATT CAAGCAAATT TTAAGAAACG AGAATGTGTC 180
TTCTTACCA AAGATTCCAA GGCCACGGAG AATGTGTGCA AGTGTGGCTA TGCCCAGAGC 240
CAGCACATGG AAGGCACCCAA GATCAACCAA AGTGAGAAAT GGAACATACAA GAAACACACC 300
AAGGAATTTC CTACCGACGC CTTTGGGAT ATTCAAGTTG AGACACTGGG GAAGAAAGGG 360
AAGTATATAC GTCTGTCTG CGACACGGAC GCGGAAATCC TTTACGAGCT GCTGACCCAG 420
CACTGGCACC TGAAAACACC CAACCTGGTC ATTTCTGTGA CCGGGGGCGC CAAGAACCTTC 480
GCCCTGAAGC CGCGCATGCG CAAGATCTTC AGCCGGCTCA TCTACATCGC GCAGTCCAAA 540
GGTGTGGGA TTCTCACGGG AGGCACCCAT TATGGCCTGA CGAAGTACAT CGGGGAGGTG 600
GTGAGAGATA ACACCATCAG CAGGAGTTCA GAGGAGAATA TTGTGGCCAT TGGCATAGCA 660
GCTTGGGCA TGGTCTCCAA CCGGGACACC CTCATCAGGA ATTGCGATGC TGAGGGCTAT 720
TTTTAGCCC AGTACCTTAT GGATGACTTC ACAAGGGATC CACTGTATAT CCTGGACAAC 780
AACCACACAC ATTTGCTGCT CGTGGACAAT GGCTGTATG GACATCCCAC TGTCGAAGCA 840
AAGCTCCGGA ATCAGCTAGA GAAGCATATC TCTGAGCGCA CTATTCAAGA TTCCAACAT 900
GGTGGCAAGA TCCCCATTGT GTGTTTGCC CAAGGAGGTG GAAAAGAGAC TTGAAAGCC 960
ATCAATACCT CCATCAAAAA TAAAATTCTT TGTGTGGTGG TGGAAAGGCTC GGGCCGGATC 1020
GCTGATGTGA TCGCTAGCCT GGTGGAGGTG GAGGATGCC CGACATCTTC TGCCGTCAAG 1080
GAGAAGCTGG TGCGTTTTT ACCCCGCACG GTGTCCCGC TGTCTGAGGA GGAGACTGAG 1140
AGTTGGATCA AATGGCTAA AGAAATTCTC GAATGTTCTC ACCTATTAAC AGTTATTAAC 1200
ATGGAAGAAG CTGGGGATGA AATTGTGAGC AATGCCATCT CCTACGCTCT ATACAAAGCC 1260
TTCAGCACCA GTGAGCAAGA CAAGGATAAC TGGAAATGGC AGCTGAAGCT TCTGCTGGAG 1320
TGGAAACCAGC TGGACTTAGC CAATGATGAG ATTTTACCCA ATGACCGCCG ATGGGAGTCT 1380
GCTGACCTTC AAGAAGTCAT GTTTACGGCT CTCATAAAGG ACAGACCCAA GTTTGTCCGC 1440
CTCTTCTGG AGAATGGCTT GAACCTACGG AAGTTTCTCA CCCATGATGT CCTCACTGAA 1500
CTCTTCTCCA ACCACTTCAG CACGCTTGTG TACCGGAATC TGCAAGATCGC CAAGAATTCC 1560
TATAATGATG CCCTCCTCAC GTTTGTCTGG AAACCTGGTTG CGAAACTTCCG AAGAGGCTTC 1620
CGGAAGGAAG ACAGAAATGG CCGGGACGAG ATGGACATAG AACTCCACGA CGTGTCTCCT 1680
ATTACTCGGC ACCCCCTGCA AGCTCTCTTC ATCTGGGCCA TTCTTCAGAA TAAGAAGGAA 1740
CTCTCCAAAG TCATTTGGGA GCAGACCAGG GGCTGCACTC TGGCAGCCCT GGGAGCCAGC 1800
AAGCTTCTGA AGACTCTGGC CAAAGTGAAG AACGACATCA ATGCTGCTGG GGAGTCCGAG 1860
GAGCTGGCTA ATGAGTACGA GACCCGGGCT GTTGAGCTGT TCACTGAGTG TTACAGCAGC 1920
GATGAAGACT TGGCAGAACAA GCTGCTGGTC TATTCTGTG AAGCTTGGGG TGGAAGCAAC 1980
TGTCTGGAGC TGGCGGTGGA GGCCACAGAC CAGCATTCA CCGCCCCAGCC TGGGGTCCAG 2040
AATTTCTTT CTAAGCAATG GTATGGAGAG ATTTCCCGAG ACACCAAGAA CTGGAAGATT 2100

Fig. 12A (1)

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ATCCTGTGTC TGTTTATTAT ACCCTTGGTG GGCTGTGGCT TTGTATCATT TAGGAAGAAA 2160
CCTGTCGACA AGCACAAAGAA GCTGCTTGG TACTATGTGG CGTTCTTCAC CTCCCCCTTC 2220
GTGGTCTTCT CCTGGAATGT GGTCTCTAC ATCGCCTTCC TCCTGCTGTT TGCCTACGTG 2280
CTGCTCATGG ATTTCCATTG GGTGCCACAC CCCCCCGAGC TGGTCCTGTA CTCGCTGGTC 2340
TTTGTCTCT TCTGTGATGA AGTGAGACAG TGGTACGTAA ATGGGGTGA TTATTTTACT 2400
GACCTGTGGA ATGTGATGGA CACGCTGGGG CTTTTTACT TCATAGCAGG AATTGTATTT 2460
CGGCTCCACT CTTCTAATAA AAGCTCTTG TATTCTGGAC GAGTCATTT CTGTCTGGAC 2520
TACATTATTT TCACTCTAAG ATTGATCCAC ATTTTACTG TAAGCAGAAA CTTAGGACCC 2580
AAGATTATAA TGCTGCAGAG GATGCTGATC GATGTGTTCT TCTTCCTGTT CCTCTTTGCG 2640
GTGTGGATGG TGGCCTTGG CGTGGCCAGG CAAGGGATCC TTAGGCAGAA TGAGCAGCGC 2700
TGGAGGTGGA TATTCCGTTC GGTCATCTAC GAGCCCTACC TGGCCATGTT CGGCCAGGTG 2760
CCCAGTGAACG TGGATGGTAC CACGTATGAC TTTGCCACT GCACCTTCAC TGGGAATGAG 2820
TCCAAGCCAC TGTGTGTGGA GCTGGATGAG CACAACCTGC CCCGGTTCCC CGAGTGGATC 2880
ACCATCCCCC TGGTGTGCAT CTACATGTTA TCCACCAACA TCCTGCTGTT CAACCTGCTG 2940
GTCGCCATGT TTGGCTACAC GGTGGGCACC GTCCAGGAGA ACAATGACCA GGTCTGGAAG 3000
TTCCAGAGGT ACTTCCTGGT GCAGGAGTAC TGCAAGCCGC TCAATATCCC CTTCCCCCTC 3060
ATCGTCTTCG CTTACTTCTA CATGGTGGTG AAGAAGTGCT TCAAGTGTGTT CTGCAAGGAG 3120
AAAAACATGG AGTCTTCTGT CTGCTGTTTC AAAAATGAAG ACAATGAGAC TCTGGCATGG 3180
GAGGGTGTCA TGAAGGAAAAA CTACCTTGTC AAGATCAACA CAAAAGCCAA CGACACCTCA 3240
GAGGAATGA GGCATCGATT TAGACAACTG GATACAAAGC TTAATGATCT CAAGGGTCTT 3300
CTGAAAGAGA TTGCTAATAA AATCAAATAA AACTGTATGA AACTCTAATG GAGAAAAATC 3360
TAATTATAGC AAGATCATAT TAAGGAATGC TGATGAACAA TTTTGCTATC GACTACTAAA 3420
TGAGAGATTTC TCAGACCCCT GGGTACATGG TGGATGATT TAAATCACCC TAGTGTGCTG 3480
AGACCTTGAG AATAAAAGTGT GTGATTGGTT TCATACTTGA AGACGGATAT AAAGGAAGAA 3540
TATTTCTTT ATGTGTTCT CCAGAATGGT GCCTGTTCT CTCTGTTCT CAATGCCCTGG 3600
GACTGGAGGT TGATAGTTA AGTGTGTTCT TACCGCCTCC TTTTCCTTT AATCTTATTT 3660
TTGATGAACA CATATATAGG AGAACATCTA TCCTATGAAT AAGAACCTGG TCATGCTTTA 3720
CTCCTGTATT GTTATTTGT TCATTCCAA TTGATTCTCT ACTTTCCCT TTTTGTTATT 3780
ATGTGACTAA TTAGTTGGCA TATTGTTAAA AGTCTCTAA ATTAGGCCAG ATTCTAAAAC 3840
ATGCTGCAGC AAGAGGACCC CGCTCTCTTC AGGAAAAGTG TTTTCATTTC TCAGGATGCT 3900
TCTTACCTGT CAGAGGAGGT GACAAGGCAG TCTCTTGCTC TCTTGGACTC ACCAGGCTCC 3960
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AAGGCACCTAC TGACTTTGTT CTTATTGGAT ACTCCTCTTA TTTATTATTT TTCCATTAAA 4080
AATAATAGCT GGCTATTATA GAAAATTAG ACCATACAGA GATGTAGAAA GAACATAAAT 4140
TGTCCCCATT ACCCTTAAGGT AATCACTGCT AACAAATTCT GGATGGTTTT TCAAGTCTAT 4200
TTTTTTCTA TGATGTCTC AATTCTCTT CAAAATTAA CAGAATGTTA TCATACTACA 4260
TATATACTTT TTATGTAAGC TTTTCACTT AGTATTTAT CAAATATGTT TTTATTATAT 4320
TCATAGCCTT CTTAACACATT ATATCAATAA TTGCATAATA GGCAACCTCT AGCGATTACC 4380
ATAATTTCGC TCATTGAAGG CTATCTCCAG TTGATCATTG GGATGAGCAT CTTTGTGCAT 4440
GAATCCTATT GCTGTATTTG GGAAAATTAA CCAAGGTTAG ATTCCAATAA ATATCTATTT 4500
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Fig. 12A (2)

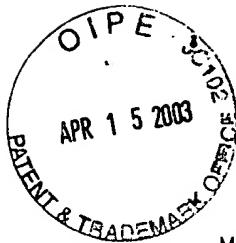


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GGCAAAACCA CATCTCTACT AAAAATAAAA AAATTAGCTG GGTGTGGTGG TGCACTCCTG 4800
TAATCCCAGC TACTCAGAAG GCTGAGGTAC AAGAATTGCT GGAACCTGGG AGGCAGGAGT 4860
TGCAGTGAAC CAAGATTGCA CCACTGCACT CCAGCCGGGG TGACAGAGTG AGACTCCGAC 4920
TGAAAATAAA TAAATAAATA AATAAAATAA TAAATAAATA AATATTATGG ATGGTGAAGG 4980
GAATGGTATA GAATTGGAGA GATTATCTTA CTGAACACCT GTAGTCCCAG CTTTCTCTGG 5040
AAGTGGTGGT ATTTGAGCAG GATGTGCACA AGGCAATTGA AATGCCATA ATTAGTTCT 5100
CAGCTTGAA TACACTATAA ACTCAGTGGC TGAAGGGAGGA AATTTAGAA GGAAGCTACT 5160
AAAAGATCTA ATTTGAAAAAA CTACAAAAGC ATTAACTAAA AAAGTTTATT TTCCCTTTGT 5220
CTGGCAGTA GTGAAAATAA CTACTCACAA CATTCACTAT GTTGCAAGG AATTAACACA 5280
AATAAAAGAT GCCTTTTAC TTAAACGCCA AGACAGAAAA CTTGCCAAT ACTGAGAAC 5340
AACTTGCATT AGAGAGGGAA CTGTTAAATG TTTTCAACCC AGTTCATCTG GTGGATGTTT 5400
TTGCAGGTTA CTCTGAGAAT TTTGCTTATG AAAAATCATT ATTTTAGTG TAGTTCACAA 5460
TAATGTATTG AACATACTTC TAATCAAAGG TGCTATGTCC TTGTGTATGG TACTAAATGT 5520
GTCCTGTGTA CTTTGACACA ACTGAGAACCTC CTGCGGCTTG GTTTAATGAG TGTGTTCATG 5580
AAATAAAATAA TGGAGGAATT GTCAAAAAAA AAAAAAAA AAAAAAAA AAAAAAAA 5640
AAAAAAAAAA AAAAAAAAAA AAAAAAAA 5668

Fig. 12A (3)



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MRNRRNDTLDSTRTLYSSASRSTDLSYSESDLVNFIQANFKKRECVFFTKDSKATENVCKCGYAQSQHME
GTQINQSEKWNYKHTKEFPTDAFGDIQFETLGKKGKYIRLSCDTDAEILYELLTQHWHLKTPNLVISVT
GGAKNFKALKPRMRKIFSRLIYIAQSKGAWILTGGTHYGLTKYIGEVVRDNTISRSSEENIVAIGIAAWGM
VSNRDTLIRNCDAEGYFLAQYLMDDFTRDPLYILDNNHTLLLVDNGCHGHTVEAKLRNQLEKHISERT
IQDSNYGGKIPIVCFAQGGGKETLKAINTSIKNKIPCVVVEGSGRIADVIASLVEVEDAPTSSAVKEKLV
RFLPRTVSRLEEEETESWIWLKEILECSHLLTVIKMEEAGDEIVSNAISYALYKAFSTSEQDKDNWNGQ
LKLLLEWNQLDLANDEIFTNDRRWESADLQEVMTALIKDRPKFVRLFLENGLNLRKFLTHDVLTEFLSN
HFSTLVYRNLQIAKNSYNDALLTFWKLVANFRRGFRKEDRNGRDEMIDIELHDVSPITRHPLQALFIWAI
LQNKKELSKVWEQTRGCTLAALGASKLLKTLAKVNDINAAGESEELANEYETRAVELFTECYSSDEDL
AEQLLVYSCAEWGGSNCLELAVEATDQHFTAQPGVQNFLSKQWYGEISRDTKNWIKIILCLFIIPLVGCGF
VSFRKKPVDKHKKLLWYYVAFFTSPFVVFSWNVVFYIAFLLFAYVLLMDFHSVPHPPELVLYSLVFVLF
CDEVRQWYVNGVNYFTDLWNVMDTLGLFYFIAGIVFRLHSSNKSSLYSGRVIFCLDYIIFTLRLIHIFTV
SRNLGPKIIMLQRMLIDVFFFLLFAVWMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLAQGQVPSDV
DGTTYDFAHCTFTGNESKPLCVELDEHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMFGYTVGTVQEN
NDQVWKFQRYFLVQEYCSRLNIPFPFIVFAYFYMVKCFKCCCKEKNMESSVCCFKNEDNETLAWEGVM
KENYLVKINTKANDTSEEMRHRFRQLDTKLNDLKGLLKEIANKIK

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Fig. 12B